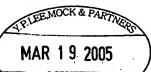
PCT/KR2004/001647

### PATENT COOPERATION TREATY

# **PCT**



### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

DECEMENT	·	<del></del> _				
Applicant's or agents the reference FOR FURTHER		see Form PCT/ISA/220				
LG-22414-PCT		as, where applicable, item □below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/KR2004/001647	03 JULY 2004 (03.07.2004)	12 JUNE 2004 (12.06.2004)				
Applicant						
LG CHEM. LTD. et al						
This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a t	otal of 3 sheets.  by of each prior art document cited in this repo	ort.				
1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.  Certain claims were found unsearchable (See Box No. II)  Unity of invention is lacking (See Box No. III)  With regard to the title,  the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:						
may, within one month from to  6. With regard to the drawings,  a. the figure of the drawings to be put as suggested by the applicant fai	according to Rule 38.2(b), by this Authority a he date of mailing of this international search blished with the abstract is Figure Noicant.  led to suggest a figure.	report, submit comments to this Authority.				

Form PCT/ISA/210 (first sheet) (January 2004)

#### INTERNATIONAL SEARCH REPORT

international application No. PCT/KR2004/001647

#### CLASSIFICATION OF SUBJECT MATTER

#### IPC7 B01J 27/14

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) B01J, C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 197  $\square$ 

Korean Utility models and applications for Utility models since 1970

Japanese Utility models and applications for Utility models since 197□

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) **eKIPASS** 

#### DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US Q233,093 A (ARCO Chemical Technology, L. P.) 03 August 1993 see the whole document	1 - 12
Α	US □962,744 A (The Research Foundation of State University of New York) 0□October 1999 see the whole document	1 - 12
Α	US Q491,266 A (Union Carbide Chemicals & Plastics Technology Corp.) 13 February 1996 see the whole document	1 - 12
A	US 4,4 D,299 A (Exxon Research and Engineering Co.) 22 May 1984 see the whole document	1 - 12

	Further documents are listed in the continuation of Box C.	See patent family annex.		
* "A" "E"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive		
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"P"	means document published prior to the international filing date but later than the priority date claimed	being obvious to a person skilled in the art "&" document member of the same patent family		
Date	ate of the actual completion of the international search  Date of mailing of the international search report			
11 MARCH 200□(11.03.200□)		11 MARCH 2005 (11.03.2005)		
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